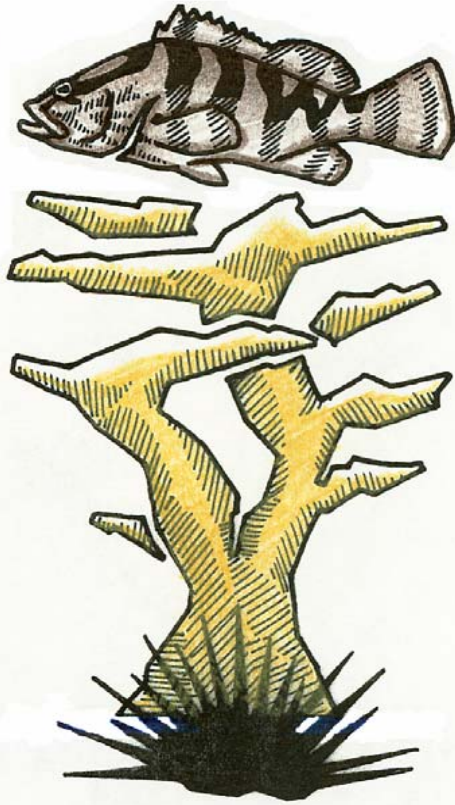


CARIBBEAN CORAL REEF INSTITUTE

Caribbean
Coral Reef



Institute

Co-operative Program:

University of Puerto Rico –
Mayagüez

NOAA, Center for Sponsored
Coastal Ocean Research

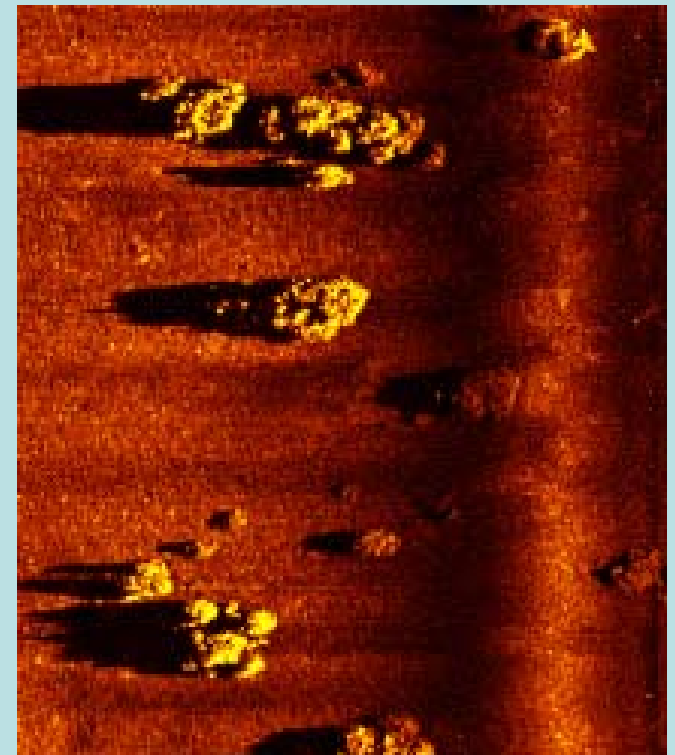
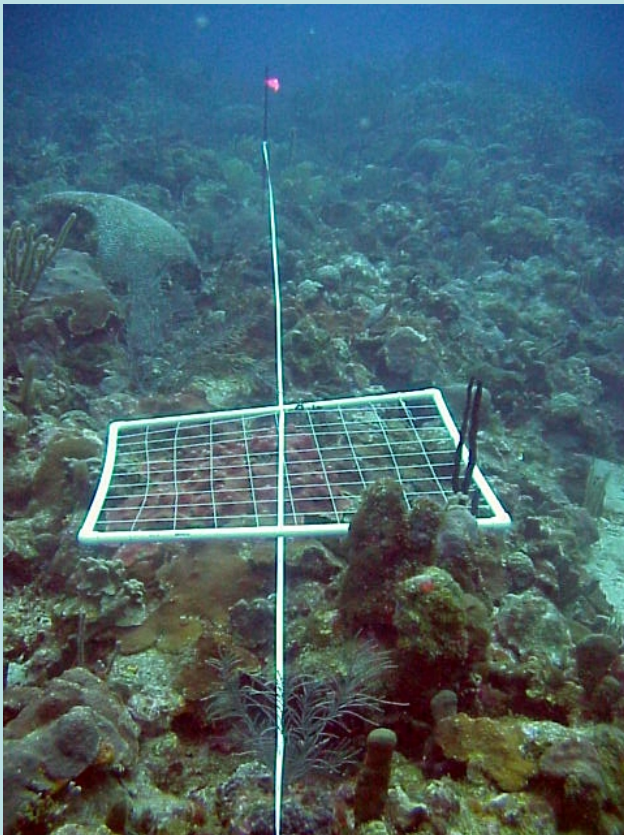
Research Needs

Basic & Applied
Science

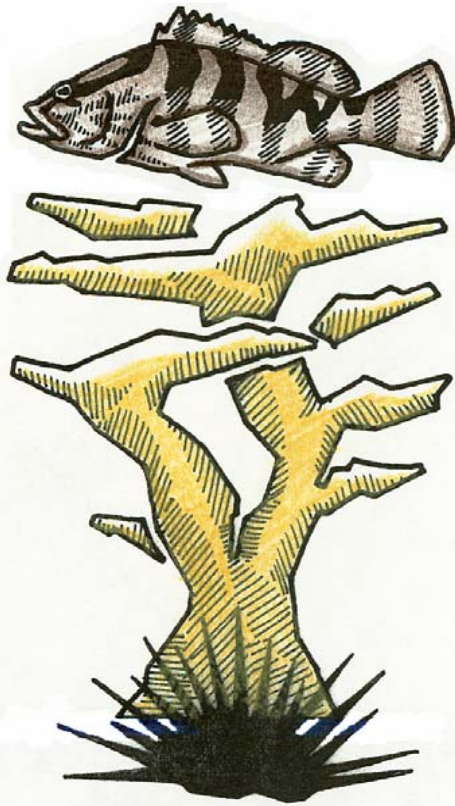
Development of
New Techniques
& Approaches

Management

Monitoring &
Management
Assessment



Caribbean Coral Reef

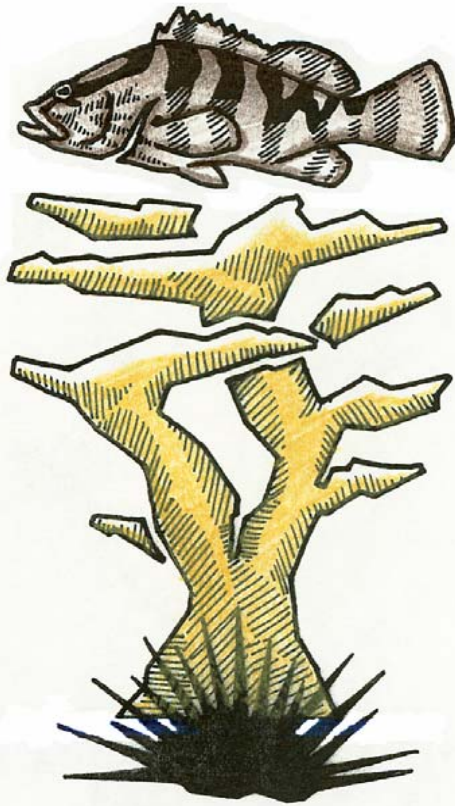


Institute

CCRI as an Approach to Research

- Modeled after Hawaiian Coral Reef Initiative
- Develop, implement, and administer research and monitoring activities
- Interact with government agencies, public and private organizations
- Utilize fully the resource base of the region to collaborate and conduct research

Caribbean
Coral Reef

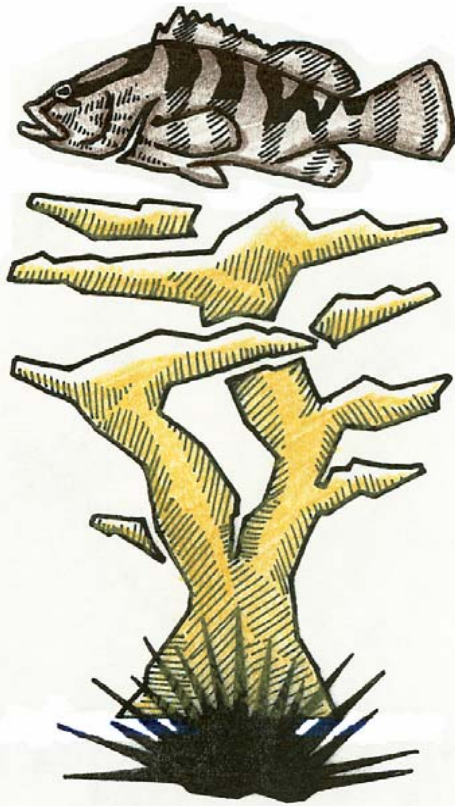


Institute

Structure of CCRI

- Permanent Staff
 - Executive Director
 - Program Manager
 - Assistant Manager
- Management Committee
- Technical Advisory Committee

Caribbean Coral Reef

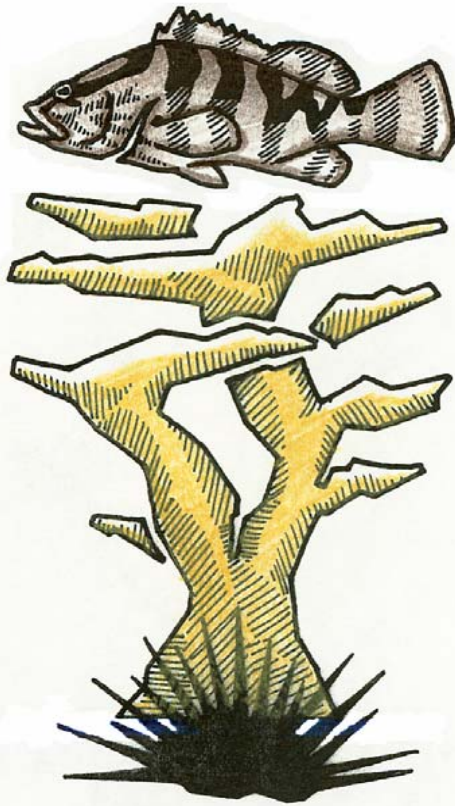


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Management Committee

- Establish priorities for research and associated activities.
- Issue requests for competitive, peer-reviewed proposals.
- Approve projects for inclusion in the Institute.
- Review research and monitoring results

Caribbean Coral Reef



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Current Research

Funded through 2 grants

10 Projects

3 Areas

- Basic Resources Assessment
- MPA Design
- Reef Processes

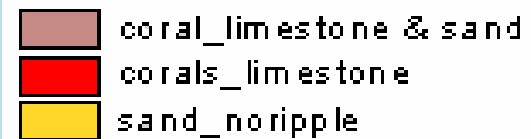
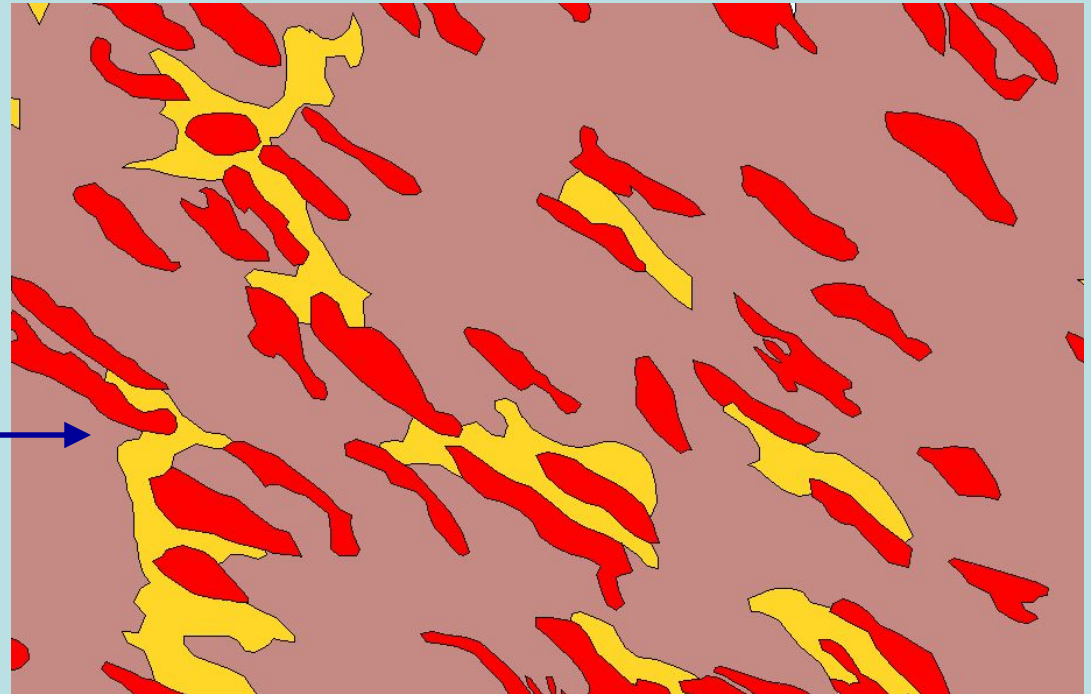
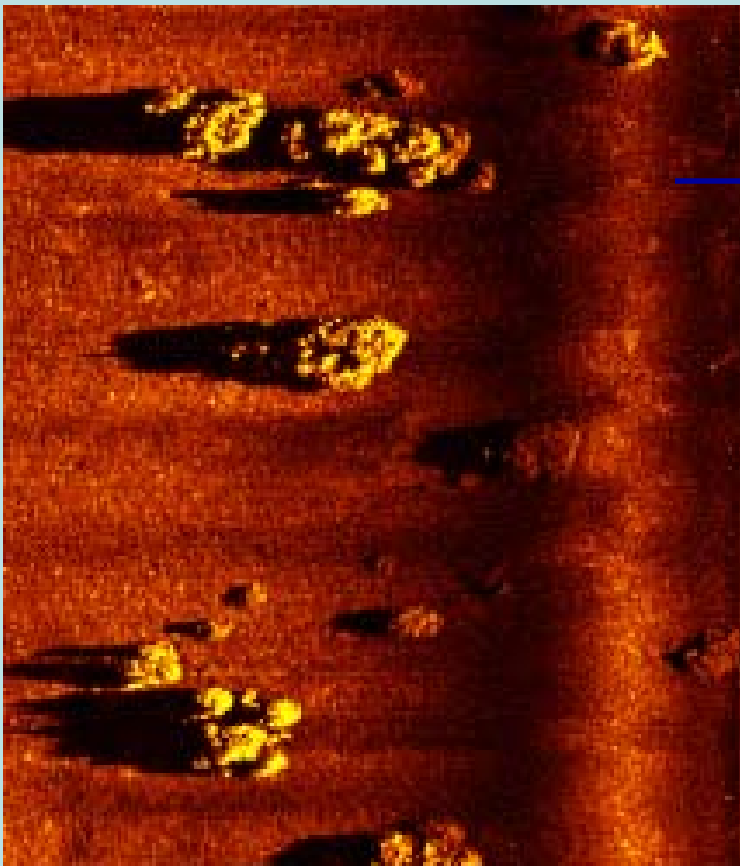
Resources Assessment



Coral Reef
Monitoring

Habitat Mapping

Resources Assessment



Resources Assessment

Ornamental Fisheries Phase II:



MPA Design



Mona Island MPA Characterization

MPA Design



New Strategies for MPA Development:
Re-visiting Turrumote

MPA Design

Spawning Aggregations



Reef Processes

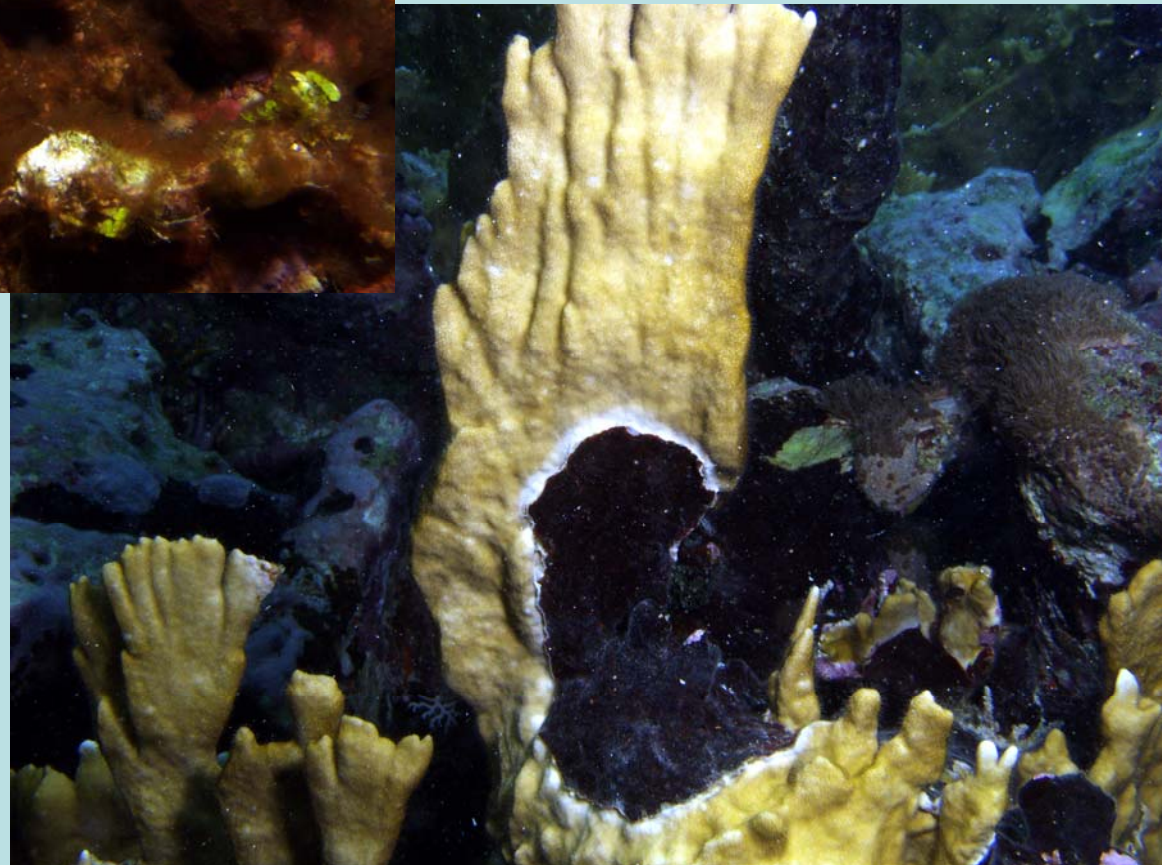
Coral Recruitment



Reef Processes



Algal
Overgrowth



Reef Processes



Genetic Variability in *Acropora*



Infrastructure Improvement

CREWS Station Enhancement

Pulse Amplitude Modulated
(PAM) Fluorometer

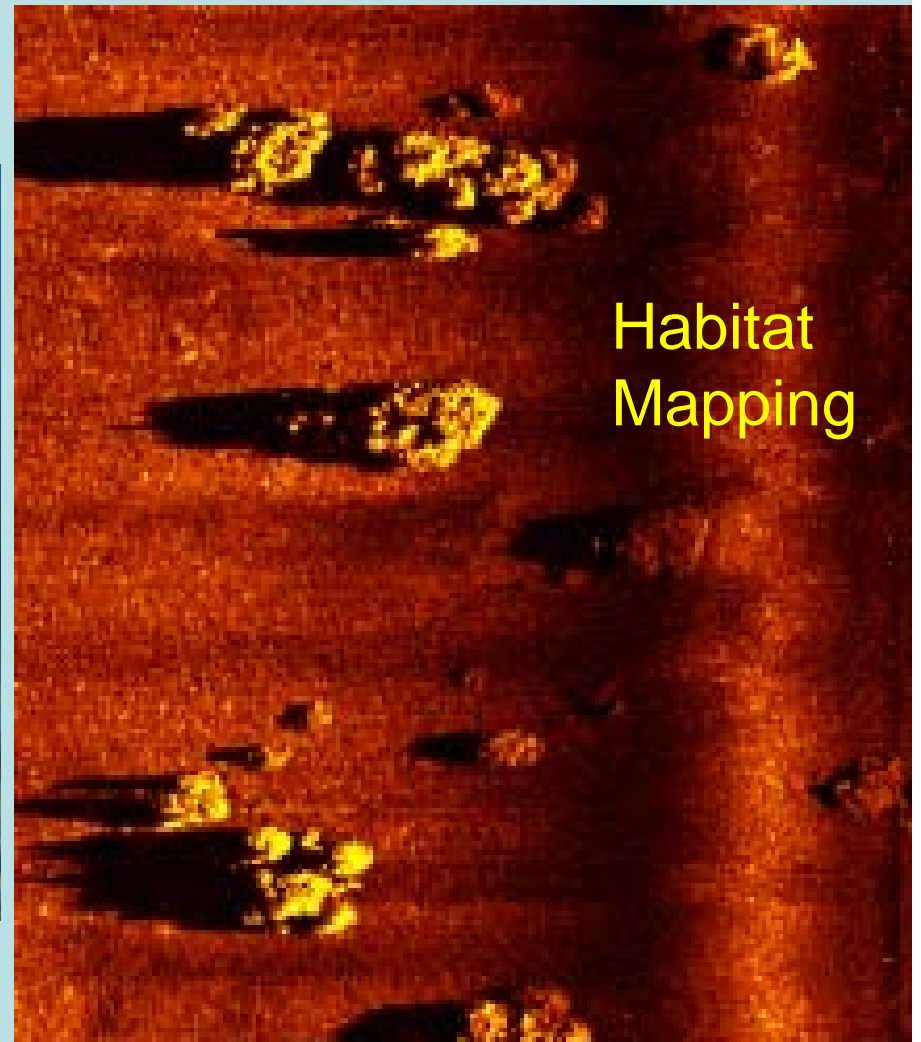
Biospherical light sensors
(three bands of UV plus PAR)

CTD



CCRI Phase II

- 3 Year Program
- First year:



CCRI Phase II

First year:

Cross-shelf Sedimentation
Patterns and Processes

Based on CRES Samples

Extent of terrigenous transport
Integrate with CRES studies

Methods:

Grain size

Carbon

Mineralogy/Trace metals



Years 2 and 3: RFP Process

In conjunction with CMRC

Over 70 experts polled:

NGO's (6)

Academia + UPR SGCP & WRRI

Local Agencies - DNER, EQB, Planning Board

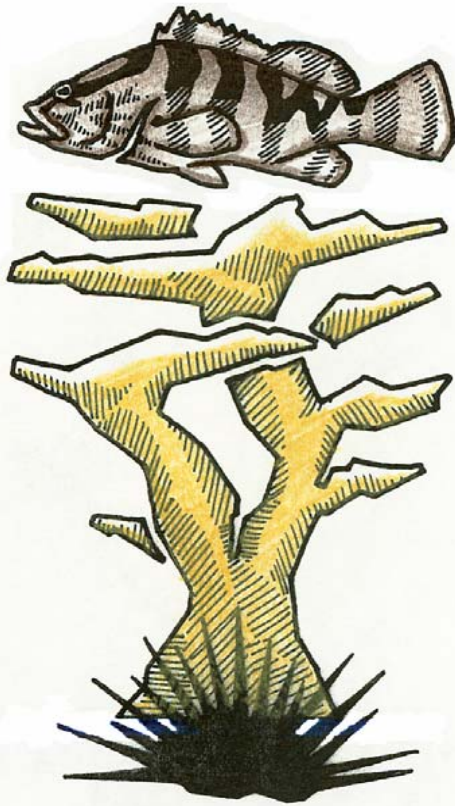
Federal Agencies – EPA, USGS, FWS, NMFS, CFMC

First Quarterly Meeting

5 Focal Areas



Caribbean Coral Reef



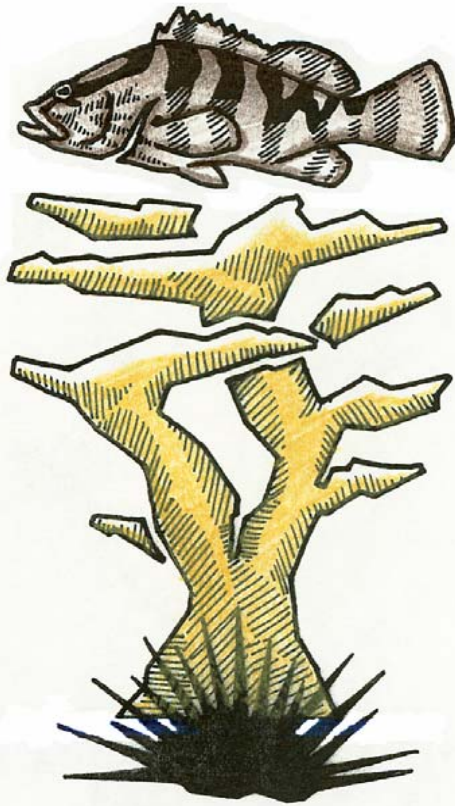
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Years 2 and 3: RFP Process

Focal Areas

- Basic assessment of resources
- Understanding reef processes
- Research to enhance the MPA process
- Water quality and coral reef health
- Dynamics of coral diseases and syndromes

Caribbean Coral Reef



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Outreach

Goal: Communicate Results to
Managers, Stakeholders, Scientists

- DNER as Co-Chair \Rightarrow CR Advisory Comm.
- Open & Announced “Quarterly” Meetings
- Research Applications in Final Reports
- Brochures on Research Results
- CCRI Web Site
- Links to Other Forums